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(54) **FRAME STRUCTURE FOR AN APPLIANCE**

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See application file for complete search history.

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patent is extended or adjusted under 35
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(51) **Int. Cl.**
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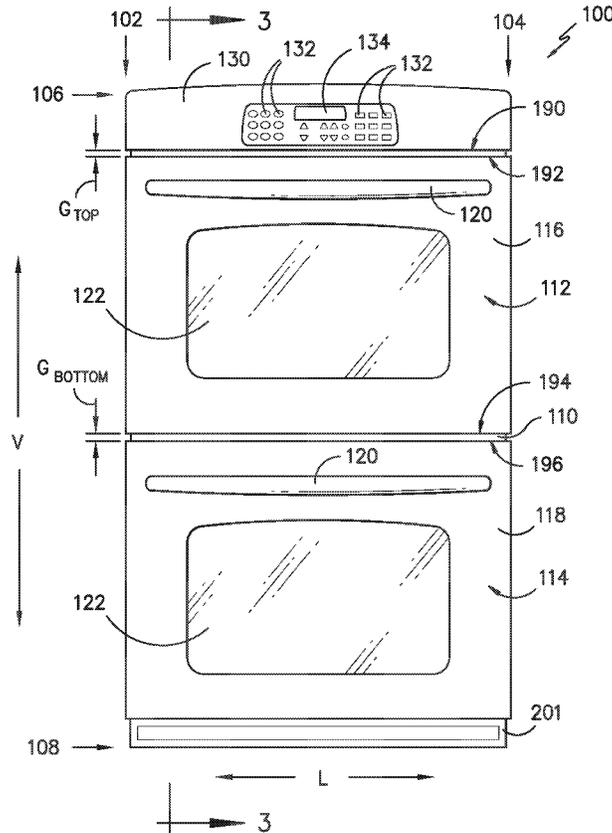
(57) **ABSTRACT**

A frame structure for an appliance, such as an oven appliance,
is provided. The frame structure includes a pair of vertical
rails and a pair of lateral rails. A pair of hinges is mounted to
the vertical rails, and a door is mounted to the vertical rails
with the pair of hinges. A control panel is also mounted to the
pair of vertical rails.

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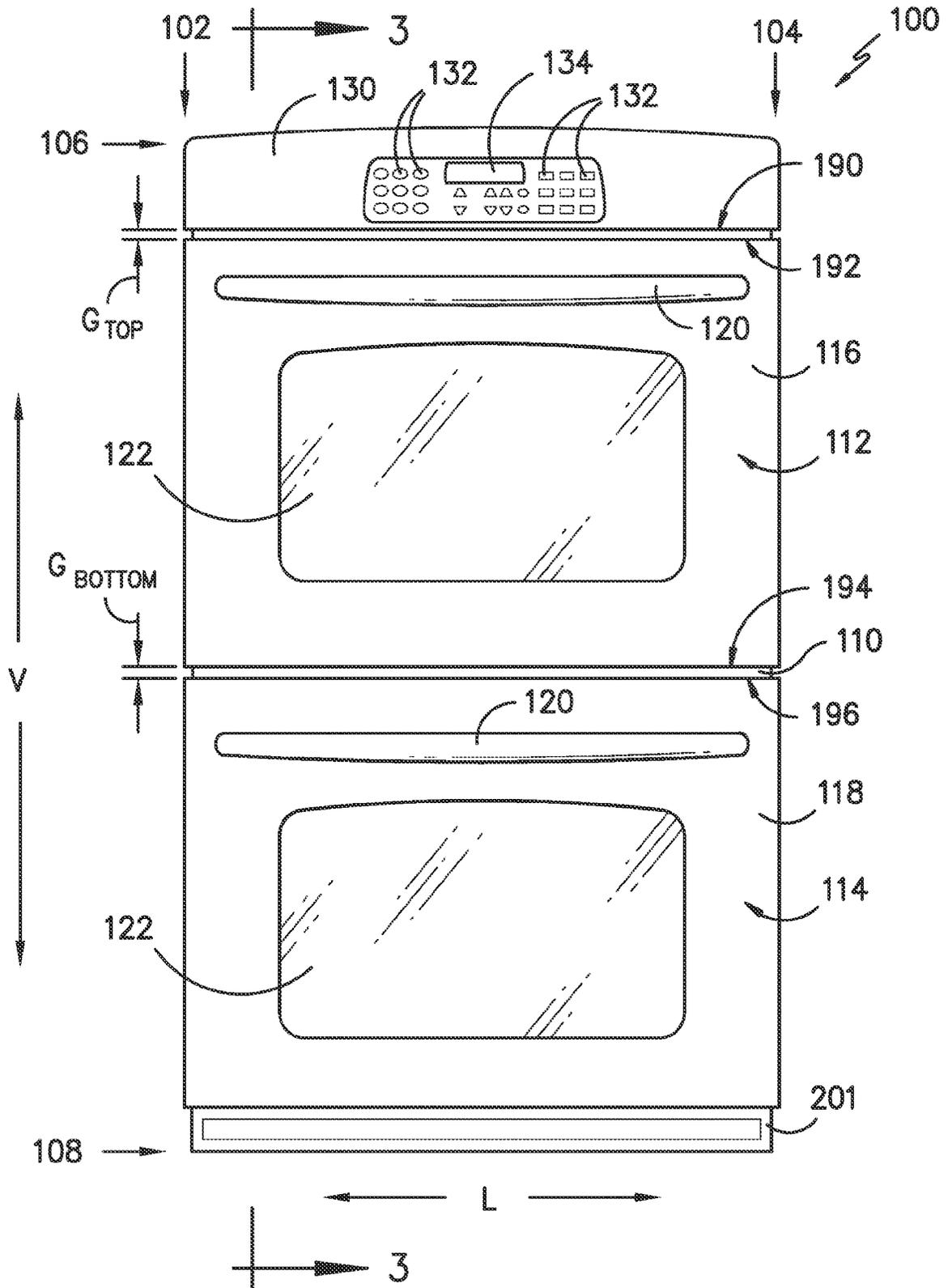


FIG. -1-

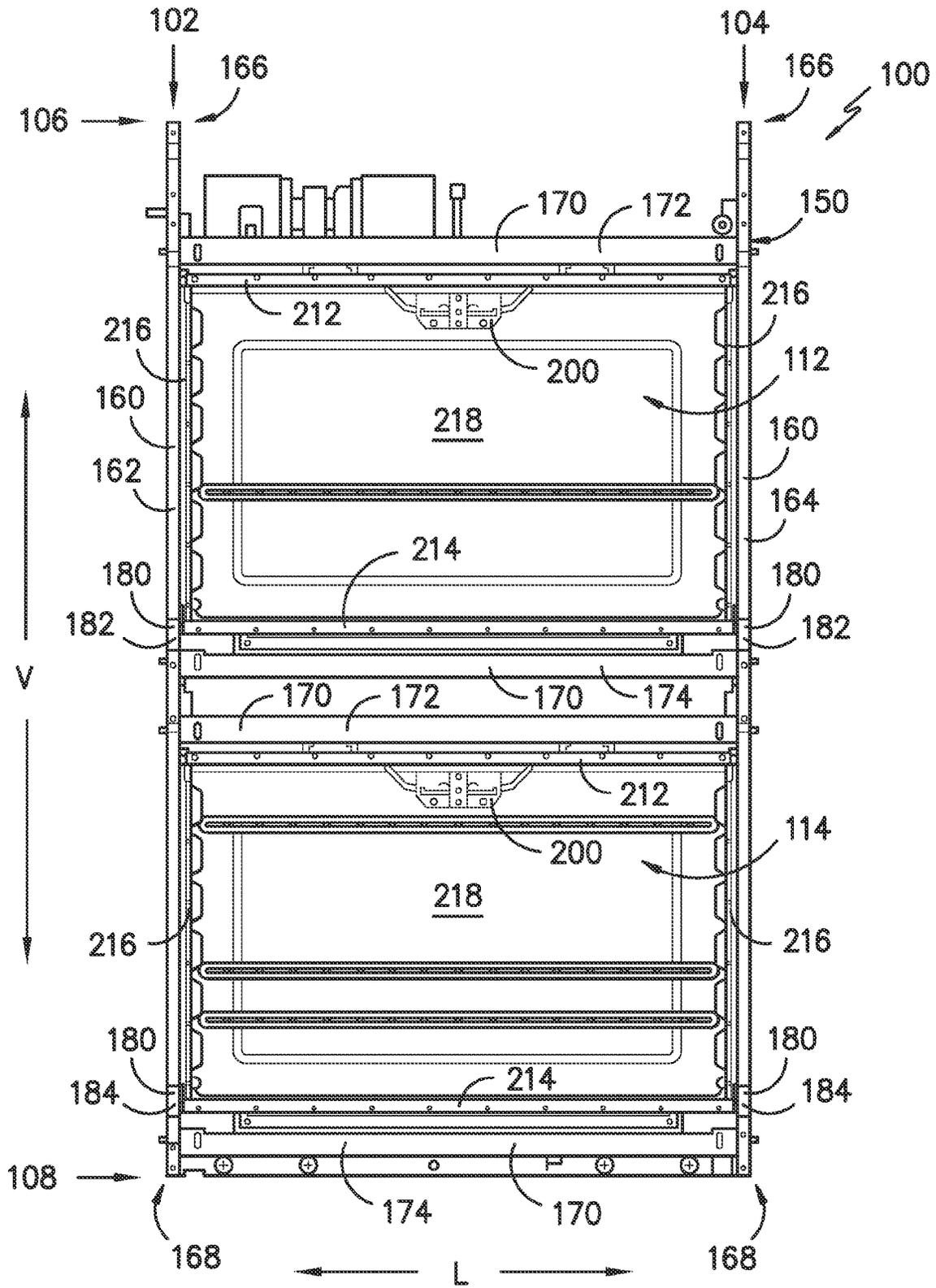


FIG. -2-

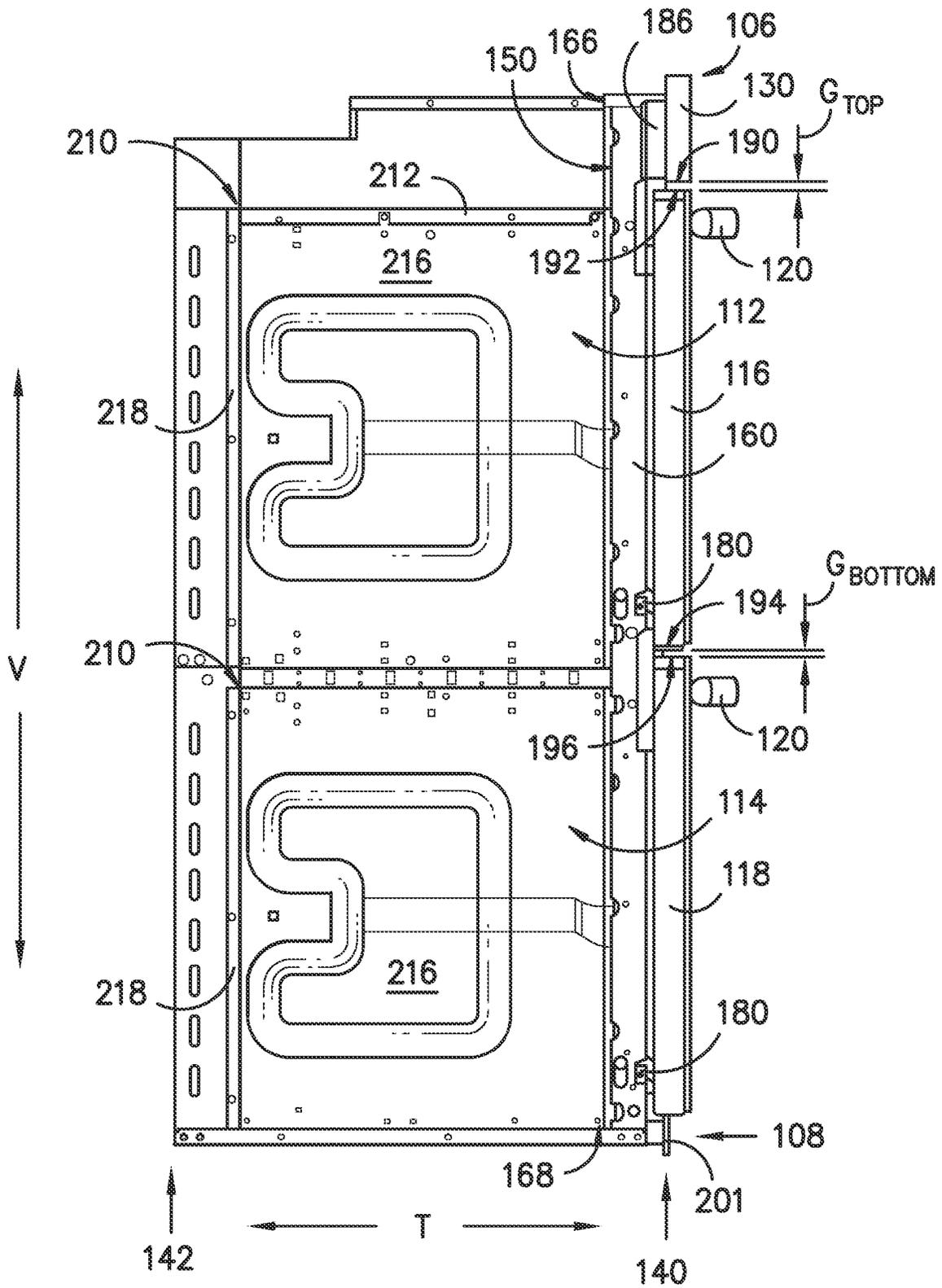


FIG. -3-

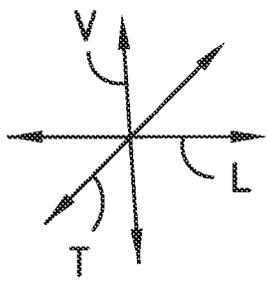
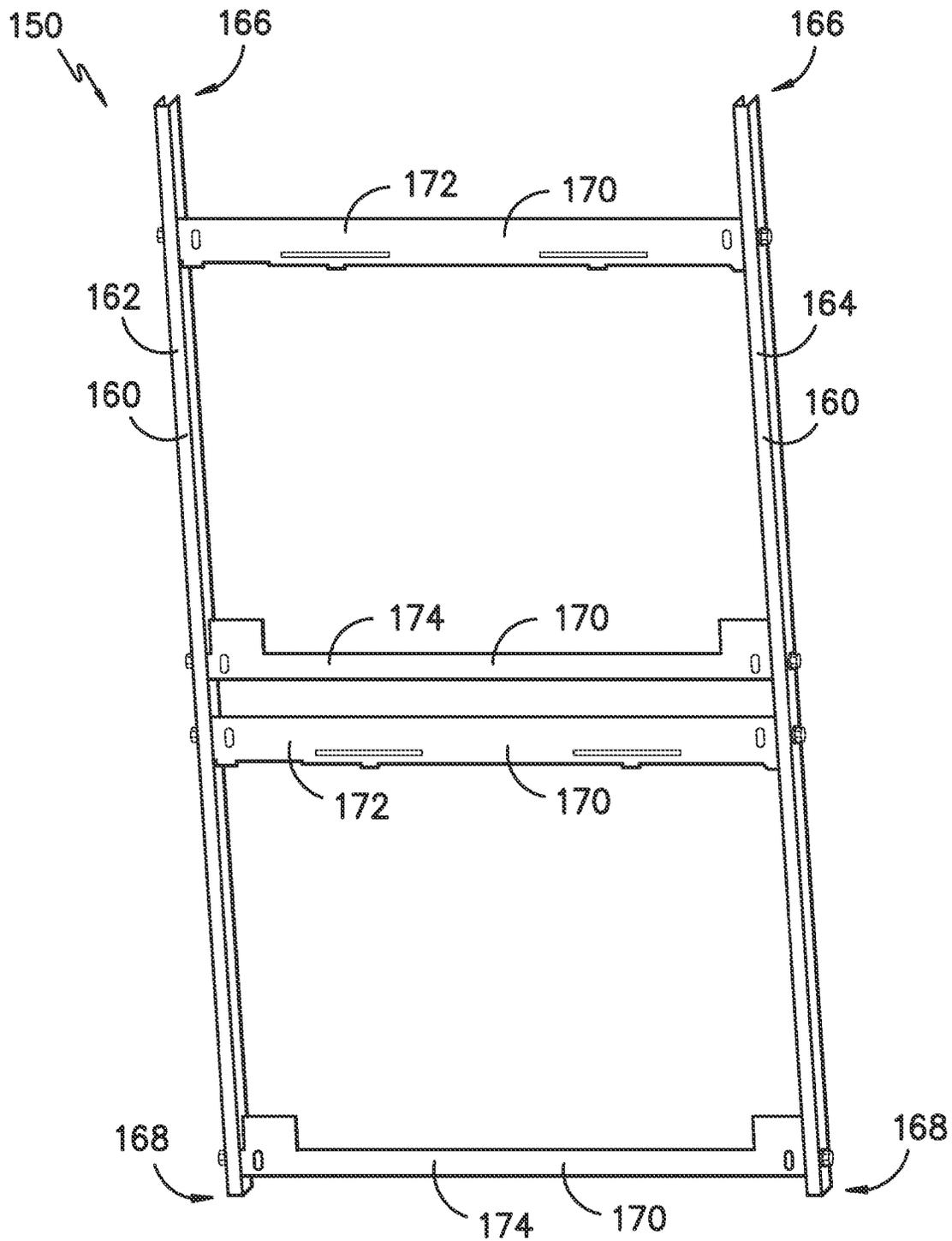


FIG. -4-

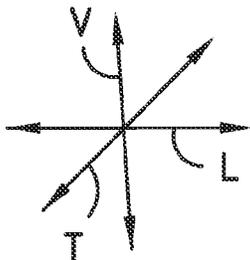
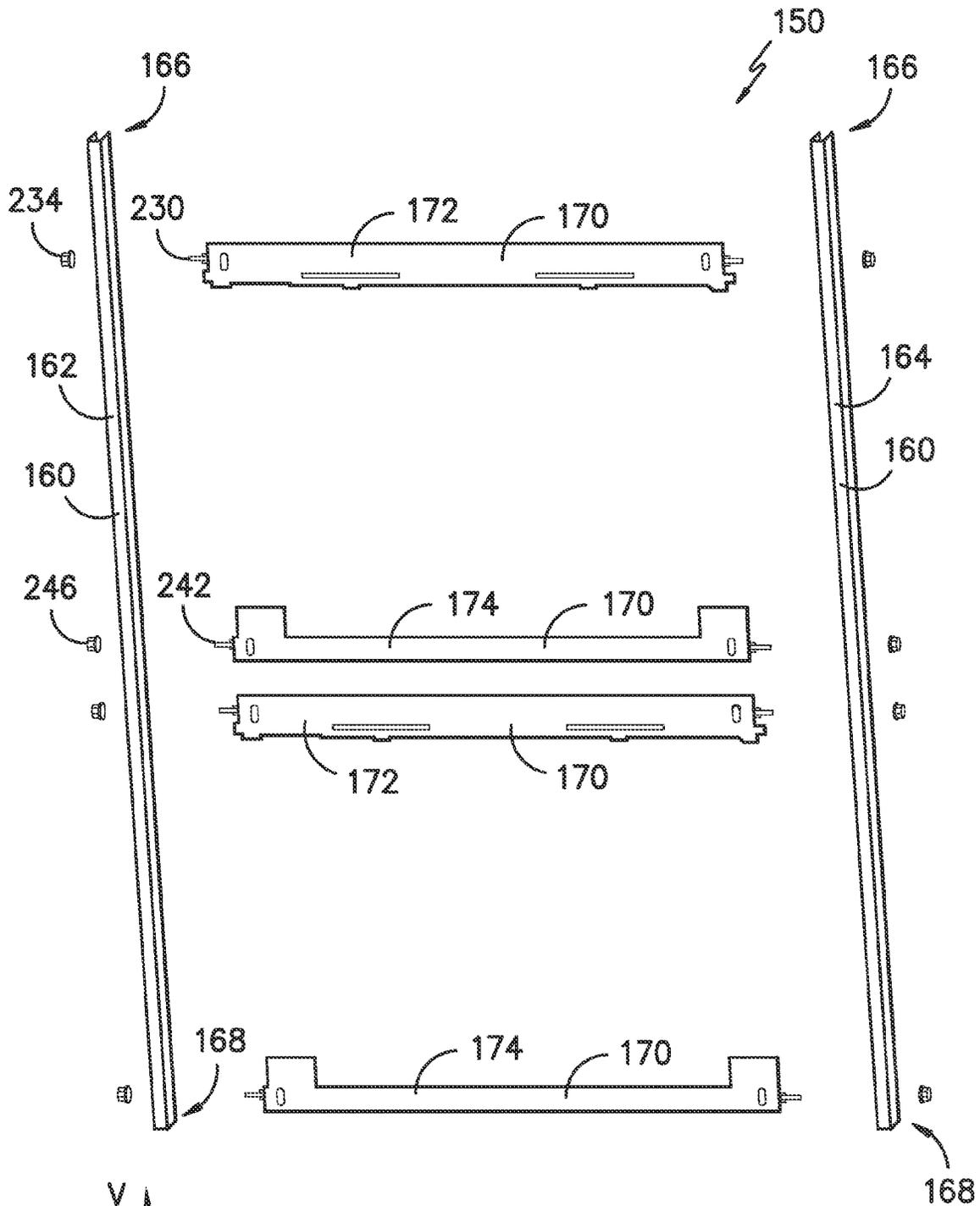
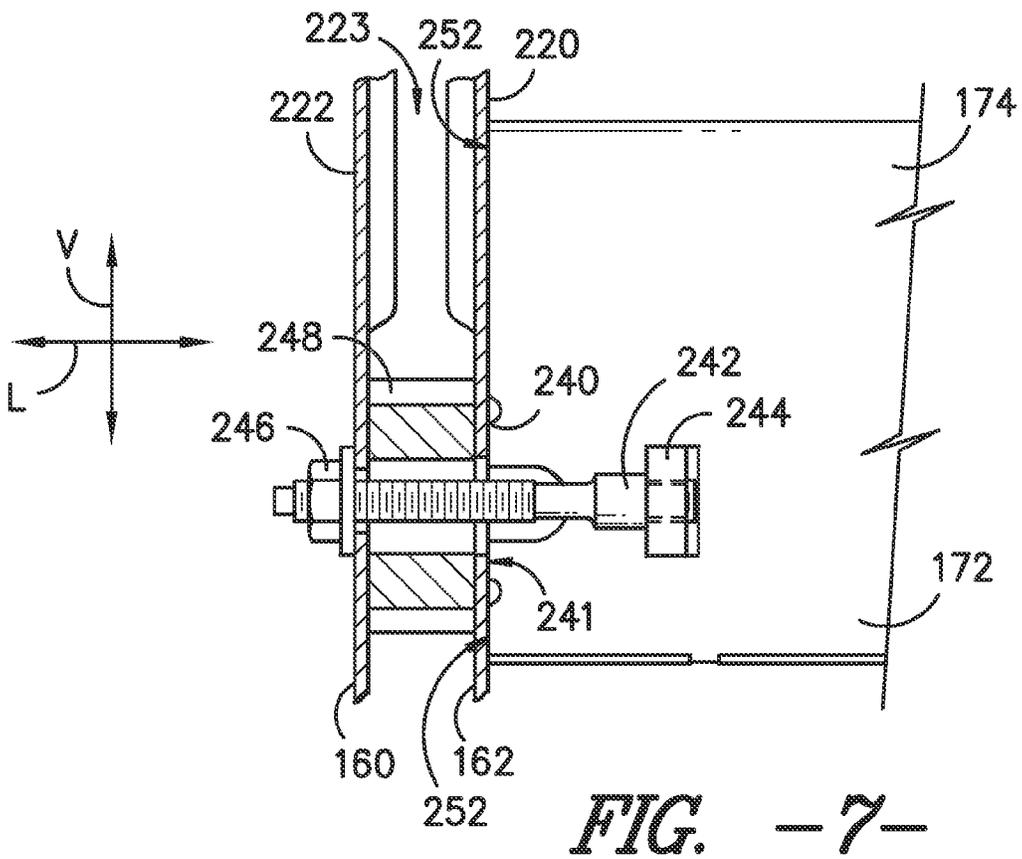
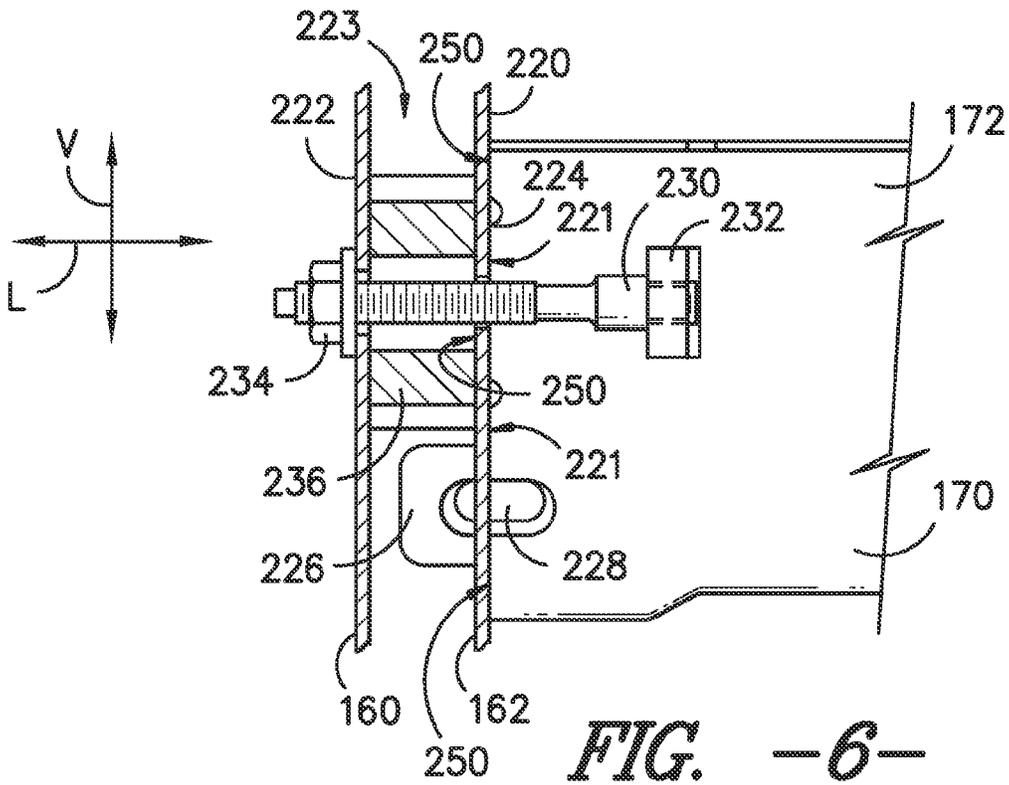


FIG. -5-



FRAME STRUCTURE FOR AN APPLIANCE

FIELD OF THE INVENTION

The present subject matter relates generally to appliances, such as oven appliances, and frame structures for the same.

BACKGROUND OF THE INVENTION

Certain appliances include various components that are visible to appliance users. As an example, oven appliances generally include a door and a control panel that are mounted to an oven body. The door and the control panel can be positioned at an outer surface of the body such that the door and control panel are visible to a user of the oven appliance.

A position of the door and the control panel relative to each other can be important to the aesthetic appearance of the oven appliance. In certain oven appliances, the control panel is mounted to the body above the door such that the control panel and the door define a gap therebetween. A size of the gap can be important to the oven appliance's appearance. For example, a non-uniform gap that varies from one side of the oven appliance to the other can have a negative effect on the oven appliance's cosmetic appearance and on a consumer's impression of the oven appliance. However, controlling the gap's size can be difficult during assembly and manufacture of the oven appliance. In particular, keeping the size of the gap uniform can be difficult.

Accordingly, an appliance with features for assisting with mounting appliance components onto the appliance would be useful. In particular, an appliance with features for assisting with mounting appliance components onto the appliance such that a gap between the components is substantially uniform would be useful.

BRIEF DESCRIPTION OF THE INVENTION

The present subject matter provides a frame structure for an appliance, such as an oven appliance. The frame structure includes a pair of vertical rails and a pair of lateral rails. A pair of hinges is mounted to the vertical rails, and a door is mounted to the vertical rails with the pair of hinges. A control panel is mounted to the pair of vertical rails. Additional aspects and advantages of the invention will be set forth in part in the following description, or may be apparent from the description, or may be learned through practice of the invention.

In a first exemplary embodiment, an oven appliance is provided. The oven appliance defines a vertical direction and a lateral direction. The oven appliance includes an oven body having a frame structure positioned at a front portion of the body. The frame structure includes a pair of vertical rails and a pair of lateral rails. The lateral rails are spaced apart from each other along the vertical direction. The lateral rails extend between the vertical rails along the lateral direction such that the lateral rails couple the vertical rails to each other. The oven appliance also includes a door and a pair of hinges. Each hinge of the pair of hinges is mounted to a respective one of the vertical rails. The door is rotatably mounted to the pair of vertical rails with the pair of hinges. A control panel is also mounted to the pair of vertical rails.

In a second exemplary embodiment, a frame structure for an appliance is provided. The frame structure defines a vertical direction and a lateral direction. The frame structure includes a first vertical rail and a second vertical rail spaced apart from the first vertical rail along the lateral direction. A top rail extends between the first and second vertical rails

along the lateral direction. A bottom rail extends between the first and second vertical rails along the lateral direction. The bottom rail is positioned below the top rail along the vertical direction. The frame structure also includes a door and a pair of hinges. Each hinge of the pair of hinges is mounted to a respective one of the first and second vertical rails. The door is rotatably mounted to first and second vertical rails with the pair of hinges. A control panel is also mounted to the first and second vertical rails.

These and other features, aspects and advantages of the present invention will become better understood with reference to the following description and appended claims. The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate embodiments of the invention and, together with the description, serve to explain the principles of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

A full and enabling disclosure of the present invention, including the best mode thereof, directed to one of ordinary skill in the art, is set forth in the specification, which makes reference to the appended figures.

FIG. 1 provides a front, elevation view of an oven appliance according to an exemplary embodiment of the present subject matter.

FIG. 2 provides a front, section view of the exemplary oven appliance of FIG. 1.

FIG. 3 provides a side, section view of the exemplary oven appliance of FIG. 1 taken along the 3-3 line of FIG. 1.

FIG. 4 provides a perspective view of a frame structure according to an exemplary embodiment of the present subject matter.

FIG. 5 provides an exploded view of the exemplary frame structure of FIG. 4.

FIG. 6 provides a section view of a top rail of the exemplary frame structure of FIG. 4 mounted to a vertical rail of the exemplary frame structure of FIG. 4.

FIG. 7 provides a section view of a bottom rail of the exemplary frame structure of FIG. 4 mounted to the vertical rail of the exemplary frame structure of FIG. 4.

DETAILED DESCRIPTION

Reference now will be made in detail to embodiments of the invention, one or more examples of which are illustrated in the drawings. Each example is provided by way of explanation of the invention, not limitation of the invention. In fact, it will be apparent to those skilled in the art that various modifications and variations can be made in the present invention without departing from the scope or spirit of the invention. For instance, features illustrated or described as part of one embodiment can be used with another embodiment to yield a still further embodiment. Thus, it is intended that the present invention covers such modifications and variations as come within the scope of the appended claims and their equivalents.

FIG. 1 provides a front, elevation view of an oven appliance 100 according to an exemplary embodiment of the present subject matter. Oven appliance 100 defines a vertical direction V, a lateral direction L and a transverse direction T (FIG. 3). The vertical direction V, lateral direction L and transverse direction T are mutually perpendicular and form an orthogonal direction system. Oven appliance 100 includes an insulated oven body 110 that extends between a first side portion 102 and a second side portion 104, e.g., along a lateral direc-

tion L. Body **110** also extends between a top portion **106** and a bottom portion **108**, e.g., along the vertical direction V.

Body **110** defines an upper cooking chamber **112** and a lower cooking chamber **114**. Upper cooking chamber **112** is positioned at or adjacent top portion **106** of body **110**. Lower cooking chamber **114** is positioned at or adjacent bottom portion **108** of body **110**. Oven appliance **100** is generally referred to as a double wall oven appliance. As will be understood by those skilled in the art, oven appliance **100** is provided by way of example only, and the present subject matter may be used in any suitable oven appliance, e.g., a single wall oven appliance or a single or double oven range appliance. Thus, the exemplary embodiment shown in FIG. 1 is not intended to limit the present subject matter in any aspect.

Upper and lower cooking chambers **112** and **114** are configured for the receipt of one or more food items to be cooked. Oven appliance **100** includes an upper door **116** and a lower door **118** rotatably attached to body **110** in order to permit selective access to upper cooking chamber **112** and lower cooking chamber **114**, respectively. Handles **120** are mounted to upper and lower doors **116** and **118** to assist a user with opening and closing doors **116** and **118** in order to access cooking chambers **112** and **114**. As an example, a user can pull on handle **120** mounted to upper door **116** to open or close upper door **116** and access upper cooking chamber **112**. Glass window panes **122** provide for viewing the contents of upper and lower cooking chambers **112** and **114** when doors **116** and **118** are closed and also assist with insulating upper and lower cooking chambers **112** and **114**.

An upper heating element (not shown) and a lower heating element (not shown) are positioned within or adjacent upper cooking chamber **112** and lower heating chamber **114** of body **110**, respectively. The upper and lower heating elements are used to heat upper cooking chamber **112** and lower heating chamber **114**, respectively, for both cooking and cleaning of oven appliance **100**. The size and heat output of the upper and lower heating elements can be selected based on the e.g., the size of oven appliance **100**. The upper and lower heating elements can include any suitable mechanism for heating oven appliance **100**. For example, the upper and lower heating elements may include electric resistance heating elements, gas burners, microwave heating elements, halogen heating elements, or suitable combinations thereof.

Operation of the oven appliance **100** is regulated by a controller (not shown) that is operatively coupled to various components of oven appliance **100**, including a control panel **130**. Control panel **130** includes a plurality of user inputs **132** and a display **134**. Control panel **130** may be in communication with the controller via one or more signal lines or shared communication busses.

Control panel **130** provides selections for user manipulation of the operation of oven appliance **100**. For example, a user can actuate user inputs **132** and signal the controller. In response to user manipulation of user inputs **132**, the controller operates various components of the oven appliance **100**. User inputs **132** of control panel **130** can be any suitable user input. For example, user inputs **132** may include various input components, such as one or more of a variety of touch-type controls, electrical, mechanical or electro-mechanical input devices including rotary dials, push buttons, and touch pad.

Control panel **130** also provides a user with information regarding operation of oven appliance **100**. For example, display **134** can present information to an appliance user. In particular, display **134** can show the current time or the operating temperature of upper and/or lower cooking chambers **112** and **114**. Display **134** can be a liquid crystal display, a dot matrix display, a series of seven-segment displays, etc.

FIG. 2 provides a front, section view of oven appliance **100**. FIG. 3 provides a side, section view of oven appliance **100** taken along the 3-3 line of FIG. 1. As may be seen in FIGS. 2 and 3, oven appliance **100**, e.g., body **110**, includes a frame structure **150**. Various components of oven appliance **100** are mounted to frame structure **150** as discussed in greater detail below.

FIG. 4 provides a perspective view of frame structure **150** of oven appliance **100**. FIG. 5 provides an exploded view of frame structure **150** of oven appliance **100**. It should be understood that frame structure **150** is not limited to use in oven appliance **100**, and, frame structure **150** can be used in or with any other suitable appliance in alternative exemplary embodiments. For example, frame structure **150** may be configured for use in a dishwasher appliance, a trash compactor, a washing machine appliance, a dryer appliance, etc. in alternative exemplary embodiments.

As may be seen in FIGS. 4 and 5, frame structure **150** includes vertical rails **160** and lateral rails **170**. Vertical rails **160** are spaced apart from each other, e.g., along the lateral direction L. Lateral rails **170** are also spaced apart from each other, e.g., along the vertical direction V. Lateral rails **170** extend between vertical rails **160** and couple vertical rails **160** to each other in order to form frame structure **150**.

Vertical rails **160** include a first vertical rail **162** and a second vertical rail **164**. First and second vertical rails **162** and **164** are spaced apart from each other, e.g., along the lateral direction L. Lateral rails **170** include at least one top rail **172** and at least one bottom rail **174**. In the exemplary embodiment shown in FIGS. 4 and 5, lateral rails **170** include two top rails **172** and two bottom rails **174** in order to top and bottom cooking chambers **112** and **114** of oven appliance **100**. It should be understood that in alternative exemplary embodiments, lateral rails **170** can include any suitable number of rails. For example, lateral rails **170** may include one, three, four, or more top rails and one, three, four, or more bottom rails in alternative exemplary embodiments.

Top and bottom rails **172** and **174** are spaced apart from each other, e.g., along the vertical direction V. In particular, each bottom rail **174** is positioned below an associated top rail **172** along the vertical direction V. Top rail **172** extends between first and second vertical rails **162** and **164** along the lateral direction L. Bottom rail **174** also extends between first and second vertical rails **162** and **164** along the lateral direction L. Thus, top and bottom rails **172** and **174** couple first and second vertical rails **162** and **164** to each other in order to form frame structure **150**.

Turning back to FIGS. 2 and 3, various components of oven appliance **100** are mounted to frame structure **150** as discussed above. As may be seen in FIG. 3, upper door **116**, lower door **118** and control panel **130** are mounted to frame structure **150**. By mounting such components of oven appliance **100** to frame structure **150**, spacing or gaps between such components can be controlled and regulated, e.g., in order to improve a cosmetic appearance of oven appliance **100**, as discussed in greater detail below.

Body **110** extends between a front portion **140** and a back portion **142**, e.g., along the transverse direction T. Frame structure **150** is positioned at or adjacent front portion **140** of body **110**. Upper door **116**, lower door **118** and control panel **130** are also positioned at or proximate front portion **140** of body **110**. Thus, upper door **116**, lower door **118** and control panel **130** can be visible to a user of oven appliance **100**.

As may be seen in FIG. 2, each vertical rail of vertical rails **160** is positioned at or adjacent a respective one of first and second side portions **102** and **104** of body **110**. In particular, first vertical rail **162** is positioned at or adjacent first side

portion **102** of body **110**. Second vertical rail **164** is positioned at or adjacent second side portion **104** of body **110**.

Each vertical rail of vertical rails **160** also extends between a first end portion **166** and a second end portion **168**. First end portion **166** of each vertical rail is spaced apart from second end portion **168** of each vertical rail, e.g., along the vertical direction V. First end portion **166** of each vertical rail is positioned at or adjacent top portion **106** of body **110**. Second end portion **168** of each vertical rail is positioned at or adjacent bottom portion **108** of body **110**.

Oven appliance **100** also includes pairs of hinges **180**. Each hinge of hinges **180** is mounted to one of vertical rails **160**. Upper and lower doors **116** and **118** are rotatably mounted to frame structure **150** with hinges **180**. Hinges **180** include a first pair of hinges **182** and a second pair of hinges **184**. Each hinge of first set of hinges **182** is mounted to a respective one of first and second vertical rails **162** and **164** in order to rotatably mount upper door **116** to frame structure **150**. Each hinge of second set of hinges **184** is mounted to a respective one of first and second vertical rails **162** and **164** in order to rotatably mount lower door **118** to frame structure **150**.

Control panel **130** is also mounted to vertical rails **160**. In particular, control panel **130** includes brackets **186**, e.g., positioned opposite user inputs **132** on control panel **130**. Each bracket of brackets **186** is mounted to a respective one of first and second vertical rails **162** and **164** in order to mount control panel **130** to frame structure **150**.

Control panel **130** is positioned above upper door **116**, e.g., along the vertical direction V. Similarly, upper door **116** is positioned above lower door **118**, e.g., along the vertical direction V. As may be seen in FIGS. **1** and **3**, control panel **130** has a bottom edge **190** and upper door **116** has a top edge **192**. Bottom edge **190** of control panel **130** and top edge **192** of upper door **116** are spaced apart from each other along the vertical direction V and define a gap G_{top} , e.g., along the vertical direction V, therebetween. In addition, upper door **116** has a bottom edge **194** and lower door **118** has a top edge **196**. Bottom edge **194** of upper door **116** and top edge **196** of lower door **118** are spaced apart from each other along the vertical direction V and define a gap G_{bottom} , e.g., along the vertical direction V, therebetween.

Gaps G_{top} and G_{bottom} extend along the lateral direction L between about first and second side portions **102** and **104** of body **110**. Mounting hinges **180** and brackets **186** of control panel **130** to vertical rails **160** can assist with sizing gaps G_{top} and G_{bottom} such that gaps G_{top} and G_{bottom} are substantially constant or uniform along the lateral direction L as shown in FIG. **1**. When gaps G_{top} and G_{bottom} are substantially uniform or constant, a cosmetic or aesthetic appearance of oven appliance **100** can be improved relative to when gaps G_{top} and G_{bottom} are uneven or non-uniform.

Additional components of oven appliance **100** can also be mounted to frame structure **150** in order to assist with manufacturing oven appliance **100**. In particular, oven appliance **100** includes door latches **200** for selectively securing upper and lower doors **116** and **118** in a closed position. Door latches **200** are mounted to top rails **172**. By mounting door latches **200** to top rails **172**, a location of door latches **200** relative to upper and lower doors **116** and **118** can be more easily determined or controlled during manufacturing of oven appliance **100**.

A bottom trim **201** of oven appliance **100** is also mounted to frame structure **150** in order to assist with manufacturing oven appliance **100**. Bottom trim **201** is positioned at or adjacent bottom portion **108** of body **110** and is mounted to vertical rails **160**. By mounting bottom trim **201** to vertical rails **160** along with upper and lower doors **116** and **118** and

control panel **130**, spacing between upper and lower doors **116** and **118**, control panel **130**, and bottom trip **201** and a position of such components relative to each other can be precisely and/or accurately controlled.

As may be seen in FIGS. **2** and **3**, oven appliance **100** also includes a set of panels **210** for defining upper and lower cooking chambers **112** and **114**. Set of panels **210** includes top panels **212** and bottom panels **214**. The top panel **212** and bottom panel **214** used to construct upper cooking chamber **112** are spaced apart from each other, e.g., along the vertical direction V, with such top panel **212** mounted to a respective top rail **172** and such bottom panel **214** mounted to a respective bottom rail **174**. Lower cooking chamber **114** is constructed in the same or a similar manner. By mounting top and bottom panels **212** and **214** in such a manner, a location of top panels **212** relative to lower panels **214** can be more easily determined or controlled during manufacturing of oven appliance **100**.

Set of panels **210** also include side panels **216** and back panels **218**. The side panels **216** used to construct upper cooking chamber **112** are spaced apart from each other, e.g., along the lateral direction L. The top panel **212** and bottom panel **214** used to construct upper cooking chamber **112** extend between and connect such side panels **216** in order to form upper cooking chamber **112**. Lower cooking chamber **114** is constructed in the same or a similar manner.

FIG. **6** provides a section view of top rail **172** of frame structure **150** mounted to first vertical rail **162** of frame structure **150**. Top rail **172** of frame structure **150** may be mounted to second vertical rail **164** of frame structure **150** in the same or a similar manner. Vertical rails **160** may be constructed by bending a sheet of metal or extruding metal into a u-shape, e.g., as shown in FIG. **5**. Thus, each vertical rail of vertical rails **160** may define a u-shaped profile, e.g., in a plane that is perpendicular to the vertical direction V. In certain exemplary embodiments, first vertical rail **162** includes a first plate **220** and a second plate **222** spaced apart from each other, e.g., along the lateral direction L, such that first and second plates **220** and **222** define a slot **223** therebetween as may be seen in FIG. **6**.

To mount top rail **172** to first vertical rail **162**, frame structure **150** includes a threaded stud **230** mounted to the top rail **172** with a t-nut **232** and also includes a lock nut **234**. Threaded stud **230** extends through first vertical rail **162**, e.g., both first and second plates **220** and **222** of first vertical rail **162**. Lock nut **234** is threaded onto threaded stud **230**, e.g., at second plate **222**, in order to secure or mount top rail **172** to first vertical rail **162**.

Top rail **172** also includes a top tab **224** and a bottom tab **226** that are spaced apart from each other, e.g., along the vertical direction V. First plate **220** of first vertical rail **162** defines openings **221** for receiving top and bottom tabs **224** and **226** of top rail **172**. With top and bottom tabs **224** and **226** of top rail **172** positioned within openings **221**, first vertical rail **162** supports top rail **172**, e.g., such that movement of top rail **172** along the vertical direction V and rotation of top rail **172** is hindered or limited. Bottom tab **226** also defines an embossment **228** for limiting deflection and deformation of bottom tab **226**.

Frame structure **150** also includes a compression insert **236**. Compression insert **236** is received within slot **223** of first vertical rail **162**. In particular, compression insert **236** extends along the lateral direction L, e.g., between first and second plates **220** and **222** of first vertical rail **162** within slot **223**. Compression insert **236** is positioned proximate top rail **172**, and threaded stud **230** extends through compression insert **236**. Compression insert **236** can assist with hindering

or limiting movement or displacement of first and second plates 220 and 222 of first vertical rail 162, e.g., when lock nut 234 is threaded onto threaded stud 230 and compressed against second plate 222.

In addition, top rail 172 includes a plurality of contact sites or points 250. In the exemplary embodiment shown in FIG. 6, top rail 172 includes three contact points 250. However, in alternative exemplary embodiments, top rail 172 can include any suitable number of contact points 250. For example, top rail 172 may include two, four, five, or more contact points 250 in alternative exemplary embodiments.

Contact points 250 of top rail 172 are, e.g., about or substantially, coplanar with one another. For example, contact points 250 of top rail 172 may be coplanar with one another in a plane that is perpendicular to the lateral direction L. Contacts points 250 of top rail 172 are positioned on or in contact with first vertical rail 162, e.g., first plate 220 of first vertical rail 162. As will be understood by those skilled in the art, rotation and other movement of top rail 172 can be hindered by having top rail 172 contact first vertical rail 162 at multiple locations, such as contact points 250 of top rail 172.

FIG. 7 provides a section view of bottom rail 174 of frame structure 150 mounted to first vertical rail 172 of frame structure 150. Bottom rail 174 of frame structure 150 may be mounted to second vertical rail 164 of frame structure 150 in the same or a similar manner.

As may be seen in FIG. 7, bottom rail 174 is mounted to first vertical rail 172 in a similar manner to top rail 172 shown in FIG. 6 and discussed above. In particular, frame structure 150 includes a threaded stud 242 mounted to the bottom rail 174 with a t-nut 244 and also includes a lock nut 246 in order to mount bottom rail 174 to first vertical rail 162. Threaded stud 242 extends through first vertical rail 162, e.g., both first and second plates 220 and 222 of first vertical rail 162. Lock nut 246 is threaded onto threaded stud 242, e.g., at second plate 222, in order to secure or mount bottom rail 174 to first vertical rail 162.

Bottom rail 174 also includes a tab 240. First plate 220 of first vertical rail 162 defines an opening 241 for receiving tab 240 of bottom rail 174. With tab 241 of bottom rail 174 positioned within opening 241, first vertical rail 162 supports bottom rail 174, e.g., such that movement of bottom rail 174 along the vertical direction V and rotation of bottom rail 174 is hindered or limited.

Frame structure 150 also includes an additional compression insert 248. Compression insert 248 is received within slot 223 of first vertical rail 162. In particular, compression insert 248 extends along the lateral direction L, e.g., between first and second plates 220 and 222 of first vertical rail 162 within slot 223. Compression insert 248 is positioned proximate bottom rail 174, and threaded stud 242 extends through compression insert 248. Compression insert 248 can assist with hindering or limiting movement or displacement of first and second plates 220 and 222 of first vertical rail 162, e.g., when lock nut 246 is threaded onto threaded stud 242 and compressed against second plate 222.

In addition, bottom rail 174 includes a plurality of contact sites or points 252. In the exemplary embodiment shown in FIG. 7, bottom rail 174 includes two contact points 252. However, in alternative exemplary embodiments, bottom rail 174 can include any suitable number of contact points 252. For example, bottom rail 174 may include three, four, five, or more contact points 252 in alternative exemplary embodiments.

Contact points 252 of bottom rail 174 are, e.g., about or substantially, coplanar with one another. For example, contact points 252 of bottom rail 174 may be coplanar with one

another in a plane that is perpendicular to the lateral direction L. Contacts points 252 of bottom rail 174 are positioned on or in contact with first vertical rail 162, e.g., first plate 220 of first vertical rail 162. As will be understood by those skilled in the art, rotation and other movement of bottom rail 174 can be hindered by having bottom rail 174 contact first vertical rail 162 at multiple locations, such as contact points 252 of bottom rail 174.

This written description uses examples to disclose the invention, including the best mode, and also to enable any person skilled in the art to practice the invention, including making and using any devices or systems and performing any incorporated methods. The patentable scope of the invention is defined by the claims, and may include other examples that occur to those skilled in the art. Such other examples are intended to be within the scope of the claims if they include structural elements that do not differ from the literal language of the claims, or if they include equivalent structural elements with insubstantial differences from the literal languages of the claims.

What is claimed is:

1. An oven appliance, the oven appliance defining a vertical direction and a lateral direction, the oven appliance comprising:

- an oven body having a frame structure positioned at a front portion of the body, the frame structure comprising
 - a pair of vertical rails;
 - a pair of lateral rails, the lateral rails spaced apart from each other along the vertical direction, the lateral rails extending between the vertical rails along the lateral direction such that the lateral rails couple the vertical rails to each other;
 - a threaded stud mounted to the top rail, the threaded stud extending through the first vertical rail; and
 - a lock nut threaded onto the threaded stud;
- a door;
- a pair of hinges, each hinge of the pair of hinges mounted to a respective one of the vertical rails, the door rotatably mounted to the pair of vertical rails with the pair of hinges; and
- a control panel mounted to the pair of vertical rails.

2. The oven appliance of claim 1, wherein the body extends between a top portion and a bottom portion along the vertical direction, each vertical rail of the air of vertical rails extending between a first end portion and a second end portion, the first end portion of each vertical rail spaced apart from the second end portion of each vertical rail along the vertical direction, the first end portion of each vertical rail positioned at the top portion of the body, the second end portion of each vertical rail positioned at the bottom portion of the body.

3. The oven appliance of claim 1, wherein the control panel is positioned above the door along the vertical direction.

4. The oven appliance of claim 3, wherein the control panel has a bottom edge and the door has a top edge, the bottom edge of the control panel and the top edge of the door defining a gap therebetween, the gap being substantially constant along the lateral direction.

5. The oven appliance of claim 1, wherein the door is a first door and the pair of hinges is a first pair of hinges, the oven appliance further comprising a second door and a second pair of hinges, each hinge of the second pair of hinges mounted to a respective one the vertical rails, the second door rotatably mounted to the body with the second pair of hinges, the second door positioned below the first door along the vertical direction.

6. The oven appliance of claim 5, wherein the first door has a bottom edge and the second door has a top edge, the bottom

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edge of the first door and the top edge of the second door defining a gap therebetween, the gap being substantially constant along the lateral direction.

7. The oven appliance of claim 1, wherein the body extends between a first side portion and a second side portion along the lateral direction, each vertical rail of the pair of vertical rails positioned at a respective one of the first and second side portions of the body.

8. The oven appliance of claim 1, further comprising a door latch for selectively securing the door in a closed position, the door latch mounted to a top rail of the pair of lateral rails.

9. The oven appliance of claim 1, wherein the body comprises a set of panels defining a cooking chamber for receipt of food items for cooking, the set of panels including a top panel and a bottom panel, the top panel mounted to a top rail of the pair of lateral rails, the bottom panel mounted to a bottom rail of the pair of lateral rails.

10. A frame structure for an appliance, the frame structure defining a vertical direction and a lateral direction, the frame structure comprising:

- a first vertical rail;
- a second vertical rail spaced apart from the first vertical rail along the lateral direction;
- a top rail extending between the first and second vertical rails along the lateral direction;
- a bottom rail extending between the first and second vertical rails along the lateral direction, the bottom rail positioned below the top rail along the vertical direction;
- threaded stud mounted to the top rail, the threaded stud extending through the first vertical rail;
- lock nut threaded onto the threaded stud;
- a compression insert, the first vertical rail defining a slot along the vertical direction such that the first vertical rail defines a u-shaped cross-section in a plane that is perpendicular to the vertical direction, the compression insert received within the slot of the first vertical rail, the

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compression insert positioned proximate the top rail, the threaded stud extending through the compression insert; a door;

a pair of hinges, each hinge of the pair of hinges mounted to a respective one of the first and second vertical rails, the door rotatably mounted to first and second vertical rails with the pair of hinges; and

a control panel mounted to the first and second vertical rails.

11. The frame structure of claim 10, wherein the control panel is positioned above the door along the vertical direction.

12. The frame structure of claim 11, wherein the control panel has a bottom edge and the door has a top edge, the bottom edge of the control panel and the top edge of the door defining a gap therebetween, the gap being substantially constant along the lateral direction.

13. The frame structure of claim 10, wherein the door is a first door and the pair of hinges is a first pair of hinges, the frame structure further comprising a second door and a second pair of hinges, each hinge of the second pair of hinges mounted to a respective one of the first and second vertical rails, the second door rotatably mounted to the first and second vertical rails with the second pair of hinges, the second door positioned below the first door along the vertical direction.

14. The frame structure of claim 13, wherein the first door has a bottom edge and the second door has a top edge, the bottom edge of the first door and the top edge of the second door defining a gap therebetween, the gap being substantially constant along the lateral direction.

15. The frame structure of claim 10, further comprising a door latch for selectively securing the door in a closed position, the door latch mounted to the top rail.

16. The frame structure of claim 10, further comprising a set of panels defining a chamber, the set of panels including a top panel and a bottom panel, the top panel mounted to the top rail, the bottom panel mounted to the bottom rail.

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